Report Date: 01 Feb 2013

Summary Report for Individual Task
071-510-0001
Determine Grid Azimuth Using a Protractor
Status: Approved

Condition: As a member of a squad, given a 1:50,000-scale military map, a military protractor (GTA 05-02-012), a pencil, paper, a designated starting point on the map, and a designated ending point on the map.You have been directed to determine the azimuth from the starting point to the ending point. Some iterations of this task should be performed in MOPP.

Standard: Identify the starting point and ending point on the map, draw a straight line on the map connecting the points, align the protractor to the map, and determine the value of the angle.

Special Condition: None

Special Standards: None

Special Equipment:

Safety Level: Low

MOPP: Sometimes

Task Statements

Cue: None

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: None

Performance Steps

1. Identify the starting point on the map.

2. Identify the ending point on the map.

Note: When measuring azimuths on a map, remember that you are measuring from a starting point to an ending point. If a mistake is made and the reading is taken from the ending point, the grid azimuth will be 180 degrees off, thus causing the user to go in the wrong direction.

3. Draw a straight line on the map connecting the two points.

Note: To measure the azimuth it is best to draw a straight line between point A (starting point) and point B (ending point). A military protractor can then be used to measure the angle between grid north and this drawn line. This angle is the grid azimuth. To ensure an accurate measurement it is best to draw a line between the starting point and the ending point so that the line will extend past the protractor scale making it easier to read where the line crosses the protractor scale.

a. Draw a staight line between point A (Starting point) and B (ending point).

b. Measure the angle between grid north and the drawn line.

4. Align the protractor to the map (Figure 1,Figure 2.).

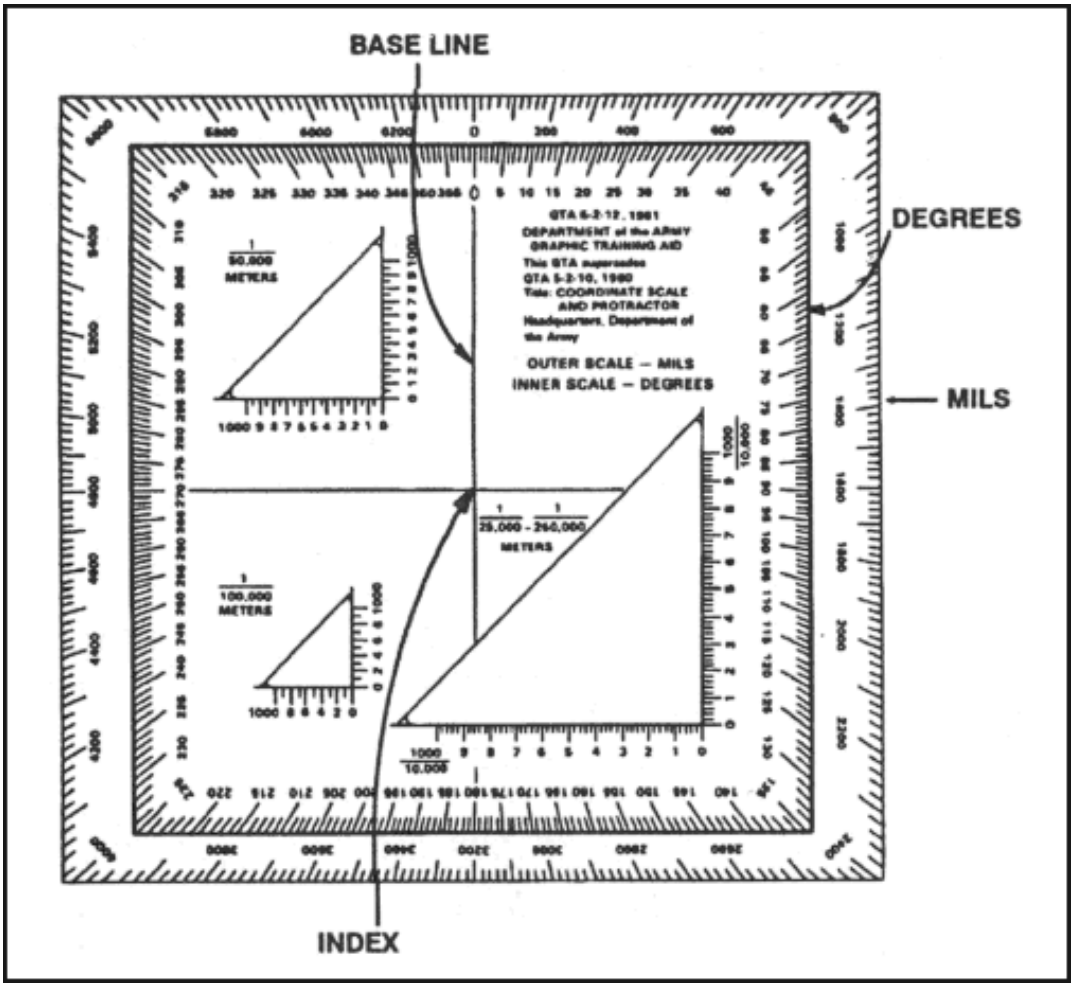

Figure 1.

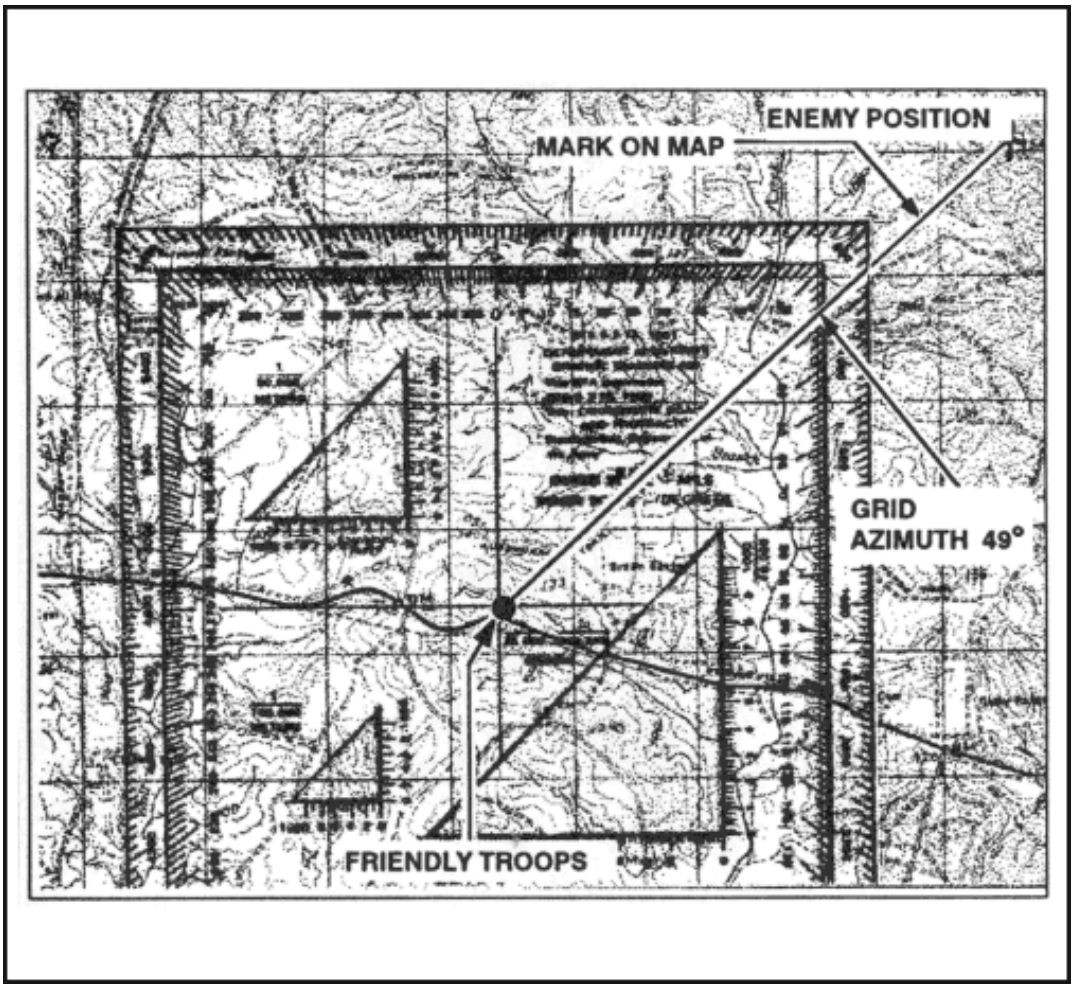

Figure 2.

a. Place the index of the protractor at the start point.

b. Ensure the 0- to 180-degree line of the protractor is parallel to the nearest north-south grid line.

c. Ensure the 90- to 270-degree line of the protractor is parallel to the nearest east-west grid line.

5. Determine the value of the angle.
   Note: The grid azimuth is the degrees/mils value where the azimuth line crosses the protractor scale.

   a. Read the number on the appropriate scale (degrees or mils).

   b. Identify where the line crosses the protractor scale.

(Asterisks indicates a leader performance step.)

Evaluation Preparation: SETUP: Provide the Soldier with the equipment and/or materials described in the conditions statement.

BRIEF THE SOLDIER: Tell the Soldier what is expected of him by reviewing the task standards. Stress to the Soldier the importance of observing all cautions, warnings, and dangers to avoid injury to personnel and, if applicable, damage to equipment.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Identified the starting point on the map.			
2. Identified the ending point on the map.			
3. Drew a straight line on the map connecting the two points.			
4. Aligned the protractor to the map.			
5. Determined the value of the angle.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	FM 3-25.26	MAP READING AND LAND NAVIGATION	No	Yes

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always, be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment form harmful effects.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination. Everyone is responsible for safety. A thorough risk assessment must be completed prior to every mission or operation.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
071-329-1006	(ARCHIVE-28-JAN-2013-JHA) Superseded (Use Task 071-COM-1006) Navigate from One Point on the Ground to another Point While Dismounted	071 - Infantry (Individual)	Superseded

Supported Individual Tasks :

Task Number	Title	Proponent	Status
071-074-0048	Conduct a Reconnaissance of a Mortar Firing Position	071 - Infantry (Individual)	Approved
071-329-1015	Locate an Unknown Point on a Map and on the Ground by Resection	071 - Infantry (Individual)	Approved
071-326-0515	Select a Movement Route Using a Map	071 - Infantry (Individual)	Approved
071-940-0002	Resupply a Platoon	071 - Infantry (Individual)	Approved
441-BNC-0100	Perform Land Navigation (Mounted/Dismounted)	441 - Air Defense (Individual)	Approved

Supported Collective Tasks :

Task Number	Title	Proponent	Status
07-5-1005	Conduct Scheduled Communications	07 - Infantry (Collective)	Approved
07-5-1398	Establish a Drop Zone for USAF Aircraft using Ground Marked Release Point	07 - Infantry (Collective)	Approved
07-5-1401	Conduct an Evasion	07 - Infantry (Collective)	Approved
07-5-1001	Conduct Surveillance	07 - Infantry (Collective)	Approved
07-5-1397	Establish a Drop Zone for USAF Aircraft using Computed Air Release Point	07 - Infantry (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
11A Officer Lieutenant, Version 1.00	Officer	AOC: 11A, Rank: 1LT
11B10, Infantryman - Version 1.00	Enlisted	MOS: 11B, Skill Level: SL1